

**METHOD OF MAKING SILICA-TITANIA EXTREME ULTRAVIOLET ELEMENTS****ABSTRACT**

Methods and apparatus for manufacturing titania-containing fused silica bodies and optical elements are described. The titania-containing fused silica bodies can be subsequently processed to make extreme ultraviolet optical elements. The methods and apparatus involve providing a sol including a titania-containing silica powder, forming the sol into a shaped gel and drying and heating the gel to a glass body.